

07/23/01
jc867 U.S. PTO

07-24-01 A

PTO/SB/05 (03-01)

Approved for use through 10/31/2002 OMB 0651-0032

U S Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

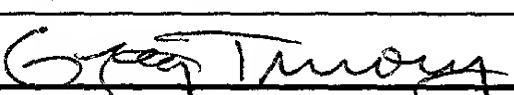
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jc867 U.S. PTO
07/23/01

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

| | |
|------------------------|--------------------------|
| Attorney Docket No. | F0617 |
| First Inventor | Bharath RANGARAJAN |
| Title | SYSTEM AND METHOD FOR... |
| Express Mail Label No. | EL798606927US |

| APPLICATION ELEMENTS | | ADDRESS TO: | | |
|---|--|---|----------|--------------|
| See MPEP chapter 600 concerning utility patent application contents. | | | | |
| 1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) <small>(Submit an original and a duplicate for fee processing)</small> | | 7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) | | |
| 2. <input type="checkbox"/> Applicant claims small entity status. <small>See 37 CFR 1.27.</small> | | 8. Nucleotide and/or Amino Acid Sequence Submission <small>(if applicable, all necessary)</small> | | |
| 3. <input checked="" type="checkbox"/> Specification [Total Pages 25] <small>(preferred arrangement set forth below)</small> <ul style="list-style-type: none"> - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure | | a. <input type="checkbox"/> Computer Readable Form (CRF) | | |
| 4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets 5] | | b. Specification Sequence Listing on: <ul style="list-style-type: none"> i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> paper | | |
| 5. Oath or Declaration [Total Pages 3] <ul style="list-style-type: none"> a. <input checked="" type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63 (d)) <small>(for continuation/divisional with Box 18 completed)</small> | | c. <input type="checkbox"/> Statements verifying identity of above copies | | |
| 6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76 | | ACCOMPANYING APPLICATION PARTS | | |
| 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: <input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No _____ / <small>Prior application information Examiner _____ Group Art Unit _____</small> | | | | |
| For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. | | | | |
| 19. CORRESPONDENCE ADDRESS | | | | |
| <input checked="" type="checkbox"/> Customer Number or Bar Code Label <div style="display: flex; align-items: center; margin-top: 5px;"> Insert Customer Number Here or <input type="checkbox"/> Correspondence address below </div> | | | | |
| Name | 23623 PATENT TRADEMARK OFFICE | | | |
| Address | | | | |
| City | State | | Zip Code | |
| Country | Telephone | | Fax | |
| Name (Print/Type) | Gregory Turocy | Registration No. (Attorney/Agent) | 36,952 | |
| Signature |  | | Date | July 23 2001 |

Burden Hour Statement This form is estimated to take 0 2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231

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FEE TRANSMITTAL

Patent fees are subject to annual revision on October 1.

These are the fees effective November 10, 1998.

Small Entity payments must be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12. See 37 C.F.R. §§ 1.27 and 1.28.**TOTAL AMOUNT OF PAYMENT** (\$ 750.00)**Complete if Known**

| | |
|----------------------|--------------------|
| Application Number | |
| Filing Date | HEREWITH |
| First Named Inventor | Bharath RANGARAJAN |
| Examiner Name | |
| Group / Art Unit | |
| Attorney Docket No. | F0617 |

METHOD OF PAYMENT (check one)

1. The Commissioner is hereby authorized to charge indicated fees and credit any over payments to

Deposit Account Number 50-1063

Deposit Account Name Amin & Turocy

Charge Any Additional Fee Required Under 37 C.F.R. §§ 1.16 and 1.17 Charge the Issue Fee Set in 37 C.F.R. § 1.18 at the Mailing of the Notice of Allowance

2. Payment Enclosed:

Check Money Order Other

FEE CALCULATION**1. BASIC FILING FEE**

Large Entity Small Entity

| Fee Code (\$) | Fee (\$) | Fee Code (\$) | Fee Description | Fee Paid |
|--------------------------|----------|---------------|---------------------------|----------|
| 101 | 760 | 201 | 380 Utility filing fee | 710 |
| 106 | 310 | 206 | 155 Design filing fee | |
| 107 | 480 | 207 | 240 Plant filing fee | |
| 108 | 760 | 208 | 380 Reissue filing fee | |
| 114 | 150 | 214 | 75 Provisional filing fee | |
| SUBTOTAL (1) (\$) | | | | 710.00 |

2. EXTRA CLAIM FEES

| | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|----------------|----------|
| Total Claims | 19 | -20** = 0 | X = |
| Independent Claims | 2 | - 3** = 0 | X = |
| Multiple Dependent | | | = |

**or number previously paid, if greater; For Reissues, see below

Large Entity Small Entity

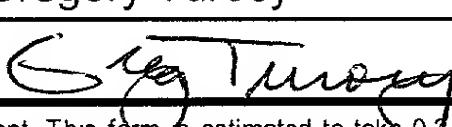
| Fee Code (\$) | Fee (\$) | Fee Code (\$) | Fee Description |
|--------------------------|----------|---------------|--|
| 103 | 18 | 203 | 9 Claims in excess of 20 |
| 102 | 78 | 202 | 39 Independent claims in excess of 3 |
| 104 | 260 | 204 | 130 Multiple dependent claim, if not paid |
| 109 | 78 | 209 | 39 ** Reissue independent claims over original patent |
| 110 | 18 | 210 | 9 ** Reissue claims in excess of 20 and over original patent |
| SUBTOTAL (2) (\$) | | | |

3. ADDITIONAL FEES

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description | Fee Paid |
|----------------------------|----------------------------|---|----------|
| 105 | 130 | 205 65 Surcharge - late filing fee or oath | |
| 127 | 50 | 227 25 Surcharge - late provisional filing fee or cover sheet. | |
| 139 | 130 | 139 130 Non-English specification | |
| 147 | 2,520 | 147 2,520 For filing a request for reexamination | |
| 112 | 920* | 112 920* Requesting publication of SIR prior to Examiner action | |
| 113 | 1,840* | 113 1,840* Requesting publication of SIR after Examiner action | |
| 115 | 110 | 215 55 Extension for reply within first month | |
| 116 | 380 | 216 190 Extension for reply within second month | |
| 117 | 870 | 217 435 Extension for reply within third month | |
| 118 | 1,360 | 218 680 Extension for reply within fourth month | |
| 128 | 1,850 | 228 925 Extension for reply within fifth month | |
| 119 | 300 | 219 150 Notice of Appeal | |
| 120 | 300 | 220 150 Filing a brief in support of an appeal | |
| 121 | 260 | 221 130 Request for oral hearing | |
| 138 | 1,510 | 138 1,510 Petition to institute a public use proceeding | |
| 140 | 110 | 240 55 Petition to revive - unavoidable | |
| 141 | 1,210 | 241 605 Petition to revive - unintentional | |
| 142 | 1,210 | 242 605 Utility issue fee (or reissue) | |
| 143 | 430 | 243 215 Design issue fee | |
| 144 | 580 | 244 290 Plant issue fee | |
| 122 | 130 | 122 130 Petitions to the Commissioner | |
| 123 | 50 | 123 50 Petitions related to provisional applications | |
| 126 | 240 | 126 240 Submission of Information Disclosure Stmt | |
| 581 | 40 | 581 40 Recording each patent assignment per property (times number of properties) | 40.00 |
| 146 | 760 | 246 380 Filing a submission after final rejection (37 CFR 1.129(a)) | |
| 149 | 760 | 249 380 For each additional invention to be examined (37 CFR 1.129(b)) | |
| Other fee (specify) _____ | | | |
| Other fee (specify) _____ | | | |

* Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 40.00)**SUBMITTED BY**

| | | | |
|-----------------------|--|-------------------------|--------------|
| Typed or Printed Name | Gregory Turocy | Reg Number | 36,952 |
| Signature |  | Date | July 23 2001 |
| | | Deposit Account User ID | |

Burden Hour Statement This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231 DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Docket No.: F0617
Applicant: Rangarajan, et al.
Title: SYSTEM AND METHOD FOR CONTROL OF
HARDMASK ETCH TO PREVENT PATTERN
COLLAPSE OF ULTRA-THIN RESISTS

I hereby certify that the attached patent application (along with any other paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on this date 7/23/01, in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EL798606927US addressed to: Box Patent Applications, Assistant Commissioner for Patents, Washington, D.C. 20231.

Michelle N. Kellhofer

(Typed or Printed Name of Person Mailing Paper)

Michelle N. Kellhofer

(Signature of Person Mailing Paper)

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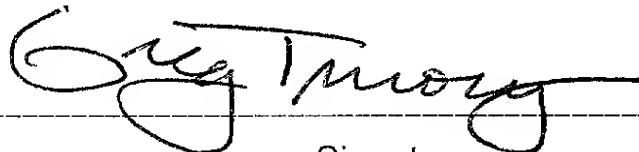
**REQUEST AND CERTIFICATION
UNDER
35 U.S.C. 122(b)(2)(B)(i)**

| | |
|----------------------|-------------------------------------|
| First Named Inventor | Bharath RANGARAJAN |
| Title | System and Method for Control of... |
| Atty Docket Number | F0617 |

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

7/23/01

Date



Signature

Gregory Turocy

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**